

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains at Westernside of R K Hegdenagara cross road and surrounding Areas in Ward No.06

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Hegdenagar Western side								
	1st main to 2nd main								
	1st cross								
	2nd cross		2	183.00	1.20	1.10	483.12		
	2nd main to Dead End		1	180.00	1.20	1.10	237.60		
	8th cross								
	9th cross		2	49.00	1.20	1.10	129.36		
	10th cross		2	40.00	1.20	1.10	105.60		
	For RCC Culvert		2	30.00	1.20	1.10	79.20		
	Hegdenagar Eastern side		10	6.50	1.80	1.00	117.00		
	2nd main								
	LHS								
	RHS		1	213.00	1.20	1.10	281.16		
	4th cross		1	244.00	1.20	1.10	322.08		
	5th cross		2	19.00	1.00	1.10	41.80		
	Desilt of drains		2	71.00	1.00	1.10	156.20		
			2	175.00	0.50	0.50	87.50		
			2	160.00	0.50	0.45	72.00		
			2	129.00	0.50	0.45	58.05		
			2	168.00	0.50	0.45	75.60		
	Basic Rate Rs.=	130.00					2246.27	215.28	483577.01
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	215.28							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Hegdenagar Western side								
	1st main to 2nd main								
	1st cross		2	183.00	1.20	0.20	87.84		
	2nd cross		1	180.00	1.20	0.20	43.20		
	2nd main to Dead End								
	8th cross		2	49.00	1.20	0.20	23.52		
	9th cross		2	40.00	1.20	0.20	19.20		
	10th cross		2	30.00	1.20	0.20	14.40		
	Hegdenagar Eastern side								
	2nd main								
	LHS		1	213.00	1.20	0.20	51.12		
	RHS		1	244.00	1.20	0.20	58.56		

Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
4th cross		2	19.00	1.00	0.20	7.60		
5th cross		2	71.00	1.00	0.20	28.40		
For RCC Culvert	Cum	10	6.50	1.80	0.20	23.40		
For CC Road								
2nd main to Dead End								
1st cross		1	43.00	7.00	0.15	45.15		
2nd cross		1	33.00	7.50	0.15	37.13		
3rd cross		1	30.00	5.70	0.15	25.65		
4th cross								
Hegdenagar Eastern side								
2nd main		1	24.00	3.60	0.15	12.96		
1st cross		1	23.00	3.30	0.15	11.39		
2nd cross		1	22.00	3.30	0.15	10.89		
3rd cross		1	19.00	4.80	0.15	13.68		
4th cross								
Basic Rate Rs. =	5115.00					514.08	5421.90	2787290.35
Add 6% A.W Rs. =	306.90							
Total Rate Rs. =	5421.90							

Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centring shuttering cost of material HOM of machinery curing etc., complete excluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWD S.R 2018-19)

For RCC Drain	Cum							
Hegdenagar Western side								
1st main to 2nd main								
Bottom slab								
1st cross		2	183.00	1.10	0.15	60.39		
2nd cross		1	180.00	1.10	0.15	29.70		
2nd main to Dead End								
8th cross		2	49.00	1.10	0.15	16.17		
9th cross		2	40.00	1.10	0.15	13.20		
10th cross		2	30.00	1.10	0.15	9.90		
Hegdenagar Eastern side								
2nd main								
LHS		1	213.00	1.10	0.15	35.15		
RHS		1	244.00	1.10	0.15	40.26		
4th cross		2	19.00	0.80	0.15	4.56		
5th cross		2	71.00	0.80	0.15	17.04		
Side walls								
1st cross		4	183.00	0.15	0.70	76.86		
2nd cross		2	180.00	0.15	0.70	37.80		
2nd main to Dead End								
8th cross		4	49.00	0.15	0.70	20.58		
9th cross		4	40.00	0.15	0.70	16.80		
10th cross		4	30.00	0.15	0.70	12.60		
Hegdenagar Eastern side								
2nd main								
LHS		2	213.00	0.15	0.70	44.73		
RHS		2	244.00	0.15	0.70	51.24		
4th cross		4	19.00	0.15	0.60	6.84		
5th cross		4	71.00	0.15	0.60	25.56		
For RCC Culvert						519.38		
Raft		10	6.50	1.50	0.25	24.38		

Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
			m	m	m		in Rs	in Rs
Side walls		20	6.50	0.25	0.60	19.50		
						43.88		
Basic Rate Rs. =	6670.00				Net Qty.	563.25	7070.20	3982290.15
Add 6% A.W Rs. =	400.20							
Total Rate Rs. =	7070.20							
KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebtrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
Considering steel For Drain @ 70kg / cum	Tonne		519.38	0.070	--	36.36		
Considering steel For Culvert @ 110 kg / cum			43.88	0.110	--	4.83		
Basic Rate Rs. =	69804.00					41.18	73992.24	3047185.42
Add 6% A.W Rs. =	4188.24							
Total Rate Rs. =	73992.24							
Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
For drain cover slab	Sqm							
Hegdenagar Western side								
1st main to 2nd main								
1st cross		2	183.00	0.90	--	329.40		
2nd cross		1	180.00	0.90	--	162.00		
2nd main to Dead End								
8th cross		2	49.00	0.90	--	88.20		
9th cross		2	40.00	0.90	--	72.00		
10th cross		2	30.00	0.90	--	54.00		
Hegdenagar Eastern side								
2nd main								
LHS		1	213.00	0.90	--	191.70		
RHS		1	244.00	0.90	--	219.60		
4th cross		2	19.00	0.75	--	28.50		
5th cross		2	71.00	0.75	--	106.50		
missing/damaged slabs		5	75.00	0.90	--	337.50		
						1589.40	2337.00	3714427.80
Providing and Fixing pre cast covering Slab 250mm thick made out of M25 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
For Culvert Slabs	Sqm	10	6.50	1.50	--	97.50		
missing/damaged slabs		18	0.60	1.50	--	16.20		
						113.70	5418.00	616026.60

Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.6 of PW, P&IWTD SR 2018-19)								
For Drain House gap	Cum							
Hegdenagar Western side								
1st main to 2nd main								
1st cross		2	183.00	0.20	0.15	10.98		
2nd cross		1	180.00	0.20	0.15	5.40		
2nd main to Dead End								
1st cross		2	49.00	0.20	0.15	2.94		
2nd cross		2	40.00	0.20	0.15	2.40		
3rd cross		2	30.00	0.20	0.15	1.80		
Hegdenagar Eastern side								
2nd main								
LHS		1	213.00	0.20	0.15	6.39		
RHS		1	244.00	0.20	0.15	7.32		
1st cross		2	19.00	0.20	0.15	1.14		
2nd cross		2	71.00	0.20	0.15	4.26		
Basic Rate Rs. =	5422.00					42.63	5747.32	245008.25
Add 6% A.W Rs. =	325.32							
Total Rate Rs. =	5747.32							
Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc., complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
For Drain	Nos							
Hegdenagar Western side								
1st main to 2nd main								
1st cross		2	183.00			366.00		
2nd cross		1	180.00			180.00		
2nd main to Dead End								
1st cross		2	49.00			98.00		
2nd cross		2	40.00			80.00		
3rd cross		2	30.00			60.00		
Hegdenagar Eastern side								
2nd main								
LHS		1	213.00			213.00		
RHS		1	244.00			244.00		
missing kerbs		1	192.00			192.00		
						1433.00		
						3184.00	432.48	1377016.32
Basic Rate Rs. =	408.00							
Add 6% A.W Rs. =	24.48							
Total Rate Rs. =	432.48							
Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
For Drain	Sqm							
Hegdenagar Western side								
1st main to 2nd main								
1st cross		2	183.00	0.40		146.40		
2nd cross		1	180.00	0.40		72.00		
2nd main to Dead End								
1st cross		2	49.00	0.40		39.20		

Sl	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	9th cross		2	40.00	0.40		32.00		
	10th cross		2	30.00	0.40		24.00		
	Hegdenagar Eastern side								
	2nd main								
	LHS		1	213.00	0.40		85.20		
	RHS		1	244.00	0.40		97.60		
							496.40	84.80	42094.72
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	84.80							
10	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. Loading and unloading with 8km lead= (I No-18.47,P No-140,KPWD SR 2018-19)								
	For CC Road	Cum							
	Hegdenagar Western side								
	2nd main to Dead End								
	8th cross		1	43.00	7.00	0.25	75.25		
	9th cross		1	33.00	7.50	0.25	61.88		
	10th cross		1	30.00	5.70	0.25	42.75		
	Hegdenagar Eastern side								
	2nd main								
	1st cross		1	24.00	3.60	0.25	21.60		
	2nd cross		1	23.00	3.30	0.25	18.98		
	3rd cross		1	22.00	3.30	0.25	18.15		
	4th cross		1	19.00	4.80	0.25	22.80		
							261.40	973.42	254451.99
	Basic Rate Rs.=	899.00							
	Add 6% A.W Rs. =	53.94							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	973.42							
11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.(I No-20.5,P No-153,KPWD SR 2018-19)								
	For CC Road Cut Portion	Cum							
	Hegdenagar Western side								
	2nd main to Dead End								
	8th cross		2	43.00	1.20	0.20	20.64		
	9th cross		2	33.00	1.20	0.20	15.84		
	10th cross		2	30.00	1.20	0.20	14.40		
	Hegdenagar Eastern side								
	2nd main								
	1st cross		1	24.00	1.00	0.20	4.80		
	2nd cross		1	23.00	1.00	0.20	4.60		
	3rd cross		1	22.00	1.00	0.20	4.40		
	4th cross		1	19.00	1.00	0.20	3.80		
							68.48	1994.92	136612.12
	Basic Rate Rs.=	1882.00							
	Add 6% A.W Rs. =	112.92							
	Total Rate Rs. =	1994.92							

Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
Constructing unreinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.60 cum, fine aggregates at 0.46 cum, Coarse and fine aggregates conforming to IS 383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008, mixed concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished with longitudinal joints including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound (P No 176, I No 22 B 1)								
CC Road	Cum							
Highdenagar Western side								
from main to Dead End								
100' CROSS		1	43.00	7.00	0.15	45.15		
100' CROSS		1	33.00	7.50	0.15	37.13		
100' CROSS		1	30.00	5.70	0.15	25.65		
Highdenagar Eastern side								
from main								
100' CROSS		1	24.00	3.60	0.15	12.96		
100' CROSS		1	23.00	3.30	0.15	11.39		
100' CROSS		1	22.00	3.30	0.15	10.89		
100' CROSS		1	19.00	4.80	0.15	13.68		
Basic Rate Rs =	4916.00					156.84	5210.96	817286.97
Add 6% A W Rs =	294.96							
Total Rate Rs =	5210.96							
GST @ 12%								
Sub Total 1 Rs								17803267.70
Head of A/C								2100392.12
CER NO								396000.00
Sub Total 2 Rs								19999659.82
Miscellaneous & Rounding off								340.18
Total Rs								20000000.00

Technical Sanction

Accorded For *RS 2100-00 (late)*

Head of A/C *P. 12.96*

CER NO *12.2* Dt *15/12/2020*

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Administrative Approval

Accorded For *RS 2100-00 (late)*

Head of A/C *P. 12.96*

CER NO *12.2* Dt *15/12/2020*

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A.E. (Project)